



Totally Integrated, Entirely Self-Contained

THE PET™

PERSONAL COMPUTER

With technology so advanced,
Concept so remarkable,
Operation so utterly simple,
Cost so incredibly low.

The PET has given rise to a brand new era...
The Age of the Personal Computer

HIGH SPEED PRINTER
ACCESSORY

PRICE — \$795
Immediate Delivery

FEATURING AN IEEE-488 BUS

THE PET has become the standard for the personal computer industry. Consumer and business publications have lauded its discovery. POPULAR SCIENCE and PLAYBOY have given special tribute to the "mind-boggling" PET.

IN A LEAGUE WITH IBM, HP AND WANG MINICOMPUTERS

THE PET is a minicomputer and should not be confused with game products that hook up to household T.V.'s. What sets it apart from other computers is price. While others cost from \$11,000 to \$20,000 and more, THE PET, with similar power, costs only \$795.00.

Features an IEEE-488 Bus — like HP's mini and full size computers. This standard data and control channel permits direct connection to many peripherals. Over 120 pieces of compatible equipment such as counters, timers, spectrum analyzers, digital voltmeters and printer plotters, from HP, Philips, Fluke, and Tektronix, etc., are currently available.

ROM Magazine, January 1978, writes, "THE PET comes out of the box, plugs into the wall, and is ready to use." It is equipped with a CRT video display with reverse and blink features, an alpha-numeric keyboard with complete graphics and a built-in standard cassette tape deck.

THE PET has 8K bytes of RAM (user memory). Optional equipment permits expansion to 32K. And, it has 14K bytes of ROM (program memory).

THE PET COMMUNICATES IN BASIC. THE EASIEST COMPUTER LANGUAGE

If THE PET wants you to press a key, it will flash, "Press such and such", on the display. You speak back to it through its full size 73-key keyboard.

EXTENSIVE CHARACTER ORIENTED GRAPHICS

The unit features a 9-inch, high resolution, 1000 character CRT. Characters are arranged 40 columns by 25 lines on an 8 x 8 matrix for superb graphics.

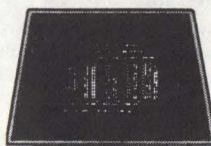
WHAT IS THE PET REALLY FOR?

It is the single most important teaching device for any computer related subject. It will entertain the most sophisticated data application, or the simplest inquiry/response assignment. IN THE LAB it handles instrumentation, process monitoring, and more. A number of Fortune 500 companies have already made it an integral part of their lab and general office system.

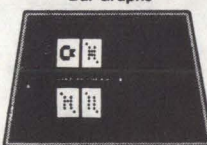
As a **BUSINESS TOOL** it will; Maintain ledgers. Keep payroll records. Create P & L's. Control inventory. Store and analyze sales data. Draw bar graphs. Issue invoices. Hook up to on-line computer system. **AT-HOME** it will; Compute state and federal tax returns. Make heat and insulation analyses. Keep Christmas lists. Keep checkbook and finances up to date. A variety of games, from Blackjack to Galaxy, is currently available.



Bar Graphs



Amortization Chart



Black Jack



Teaching Trigonometry

HIGH SPEED PET PRINTER

This powerful word processor prints hardcopies, invoices, computer correspondence. Faster than an IBM Selectric. THE PET Printer delivers 60 characters per second at a sustained rate — with upper and lower case capability. Characters are one-eighth inch tall and are printed in a 7 x 8 dot matrix. The printer uses a standard 8 1/2" wide paper roll. And, it is only \$695.00.

PERIPHERAL SECOND CASSETTE

This optional component expands storage and increases flexibility. Only \$99.95.

MILES OF SOFTWARE

Many programs are available now, including, "BASIC BASIC" which shows how to write a program. You can develop your own programs to meet personal requirements.

APPLICATIONS

The Commodore PET™ home computer is a creature of many faces. But as many faces as you see, the PET has even more. Its applications are limited only by the user's imagination.

The future of the PET is virtually unlimited; its present capabilities are already many and impressive. As a personal computer, the PET can teach languages and mathematics; play games; create graphic designs; answer the telephone, log calls, and dial numbers; store meal recipes and change number of portions; maintain budgets, personal records and checkbooks; operate appliances and temperature controls.

As a management tool, it delivers the information the executive needs, in the form he can use, and available to him alone. Trend analyses charts and graphs can be almost instantly available.

The professional may use the PET for maintaining appointment schedules, recording income and expenditures and filling all the specialized information and forms he may need to make his work more efficient — from medical records for a doctor to income tax computations for an accountant.

The engineer, mathematician, physicist, has a tool far superior to the very best programmable calculators yet developed... at a cost that is comparable... and with almost infinitely greater versatility.

And the businessman has a computer that can maintain inventories, keep payroll records, operate accounts payable and receivables, issue checks, handle correspondence.

(Some of these capabilities involve hardware which is not yet available, but which should be ready fairly soon — probably January, 1979.)

SERVICE

Although the PET is built to the highest standard in the industry, it may perhaps require service in its lifetime. You'll find the PET surprisingly easy to service. Modular components, standard TV circuitry, and a basic cassette assure that a TV serviceman with PET product knowledge will be able to render satisfactory service. Moreover, the self-diagnosing computer board will tell the serviceman if it needs replacement. And Commodore will ultimately maintain a network of Authorized Dealer service centers as well as its own service points. The Computer Factory, 485 Lexington Avenue, New York, New York 10017 is an Authorized Dealer Service Outlet.

THE COMPUTER FACTORY
485 LEXINGTON AVENUE
NEW YORK, N.Y. 10017
(212) 687-5001 or PET-2001

Credit Card Order Desk Only
800-223-7318

TECHNICAL SPECIFICATIONS

MEMORY

Random Access Memory (user memory): 8K internal, expandable to 32K bytes

Read Only Memory (operating system resident in the computer): 14K bytes

8K-BASIC interpreter program, 4K-Operating system, 1K-Diagnostic routine

VIDEO DISPLAY UNIT

9" enclosed, black & white, high resolution CRT
1000 character display, arranged 40 columns by 25 lines
8 x 8 dot matrix for characters and continuous graphics
Automatic scrolling from bottom of screen
Winking cursor with full motion control
Reverse field on all characters

64 standard ASCII characters; 64 graphic characters

KEYBOARD

9 1/2" wide x 3" deep; 73 keys

All 64 ASCII characters available without shift.

Calculator style numeric key pad

All 64 graphic and reverse field characters accessible from keyboard (with shift)

Screen Control: Clear and erase

Editing: Character insertion and deletion

CASSETTE STORAGE

Fast Commodore designed redundant-recording scheme, assuring reliable data recovery

Cassette drive modified by Commodore for much higher reliability of recording and record retention

High noise immunity, error detection, and correction

Uses standard audio cassette tapes

Tape files, named

OPERATING SYSTEM

Supports multiple languages (BASIC resident)

Machine language accessibility

File management in operating system

Cursor control, reverse field, and graphics under simple BASIC control

Cassette file management from BASIC

True random number generation or pseudo random sequence

INPUT/OUTPUT

All other I/O supported through IEEE-488 instrument interface for peripherals

I/O automatically managed by operating system software

Single character I/O with GET command

Easy screen line-edit capability

Flexible I/O structure for BASIC expansion with peripherals

BASIC INTERPRETER

8K BASIC: 20% faster than most other 8K BASICS

Upward expansion from BASIC language

Strings, integers, multiple dimension arrays

10 significant digits; floating point

Direct memory access: PEEK and POKE commands

DIMENSIONS

16" wide; 18 1/2" deep; 14" high. Weight: 44 lbs.

SOFTWARE

THE COMPUTER FACTORY has SOFTWARE GALORE for the PET, APPLE II, and TRS-80!!! Here is just a sampling:

FROM COMMODORE: (For PET)

BASIC BASIC: By James & Lodewyck. A real tutorial program, introducing you to the BASIC language. Learn PET's BASIC in a few hours with this interactive program. Topics include line numbers, variables, strings, arrays, and commands such as LIST, RUN, SAVE. Also explains PRINT, READ/DATA, INPUT, IF/THEN, GOTO, and FOR/NEXT. Fifteen chapters, six sample programs. . . and homework assignments. Requires only 4K. **\$14.95**

OSERO AND REVERSE: Osero is Commodore's version of the strategy boardgame, Othello; Reverse — a number game. **\$9.95**

DIET PLANNER AND BIORHYTHM: Diet by Les Palanik determines your ideal weight by height, age, sex, body frame, activity; then calculates precisely the number of calories needed daily to maintain or lose weight. Biorhythm plots your intellectual, emotional, and physical cycles for any 39 day period. **\$14.95**

TARGET PONG AND OFF THE WALL: Two paddle games featuring various levels of difficulty for children and adults. Keeps score for two players. **\$9.95**

A TREASURE TROVE OF GAMES: Features Lunar Lander, the game where you regulate falling speed, counterthrust and fuel requirements to land your lunar module safely. Also includes Rotate, Wumpus, and Tic Tac Toe. **\$9.95**

GALAXY GAMES: By Peter Ruetz, two tough space ship games with fixed and moving targets. **\$9.95**

DRAW POKER: Sensational graphics. PET deals, you place your bet. **\$9.95**

BLACK JACK: Just like Las Vegas, the PET deals, you try to beat the house. **\$9.95**

SPACE FIGHT: By Leonard Sweatman. Fire missiles in this two player game. Each missile has limited range so watch out! For all ages with emphasis on younger players. **\$9.95**

SPACETREK: Commodore's version of "Star-trek" with a real time clock to add urgency to your race to save the federation from conquests. **\$9.95**

STOCK PORTFOLIO ANALYSIS PACKAGE: Keep track of your stock portfolio for instant analysis of its current value and rate of return. Stores information, performs analysis, includes full documentation. **\$24.95**

BASIC MATH PACKAGE: A comprehensive package allowing you to solve many common math problems. Includes four programs — Matrix Math Routines, Vector Arithmetic, Trigonometry, and Calculus. **\$29.95**

WORD PROCESSING PACKAGE FOR PET:

Allows you to compose and edit a manuscript of up to 200 lines in memory, print it or save it on cassette and reload it later. Responds to your keystrokes character by character, avoiding quoted strings in BASIC. Recognizes script directives to set line length, left margin, center lines, or double and triple space. Edit commands allow you to insert, delete, move lines and text up or down. **\$45.00**

FROM PERSONAL SOFTWARE:

6502 ASSEMBLER IN BASIC: Accepts all standard 6502 instruction mnemonics, pseudo-ops, and addressing modes plus new TEXT pseudo-op. Evaluates binary, octal, hex, decimal, and character constants, symbols and expressions. Uses PET line number and cursor editing features for assembler source code. Supports execution of assembled programs with keyboard and display I/O. Fully documented. **\$24.95**

GRAPHICS PACKAGE: DOODLER by Les Logan; PLOTTER by Peter Maggs; and LETTER displays messages in large block letters from full character set under program control. **\$12.95**

BRIDGE CHALLENGER: By George Duisman —play contact bridge against your PET. Play any of 10 million hands, set up deals for study, replay deals, save hands on cassettes. **\$14.95**
Now available for TRS-80 and Apple II

FROM PDI:

(For PET, Apple II, & TRS-80)

IQ BUILDER—ANALOGIES: Teaches method of solving word analogy problems, provides practice problems. Includes guide. For high school through adult. **\$9.50**

IQ BUILDER—VOCABULARY: Provides practice for vocabulary testing using synonyms and antonyms. Includes guide and 2 tapes. For high school to adult. **\$12.50**

IQ BUILDER—NUMBER SERIES: Develops a method of problem solving with practice on problems of increasing difficulty, with guide. For high school to adult. **\$9.50**

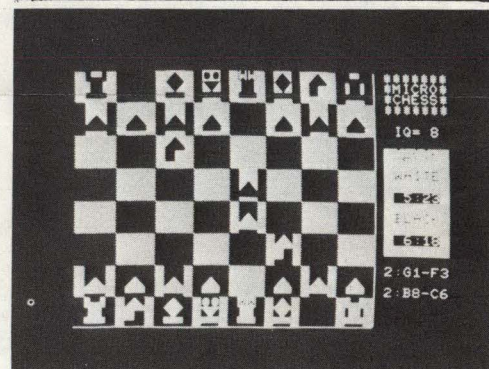
PRESCHOOL IQ BUILDER: Teaches cognitive skills. Includes SAME AND DIFFERENT and LETTER BUILDER. With Parent's Guide. For ages 3 to 6. **\$9.50**

STEP BY STEP: Teaches how to program in BASIC, working on a computer and in workbook. Each lesson followed by quiz and actual program writing. For junior high to adult. **\$29.95**

FROM NATIONAL CORPORATE SCIENCES, INC.: (For PET)

SUPER STARTREK: Add some excitement to your Klingon warfare! Our version of Startrek includes action, in addition to the "standard" Startrek features. Follow the action as you maneuver about the quadrant! See your photon torpedo seek out and destroy the enemy! Watch your starship dock at a starbase to resupply and effect repairs! With our Startrek, your missions are never dull! Long live the Federation! Reg. \$19.95 Special Offer **\$14.95**

SWARM: Huge Swarms of killer bees have been sighted in various sections of the U.S. They are spreading at an alarming rate, causing thousands of casualties. All the resources of the U.S. (and all its hopes, too) have been placed in your care. You must decide the tactics to be used to combat this deadly menace. You must oversee all 21 sectors of the U.S. and prevent the major city in each section from being overrun by the swarm. Using various combat and urban defense tactics, combined with evacuation and nuclear destruction, you attempt to save the U.S. from the deadly menace of. . . SWARM! Reg. \$24.95
Special Offer — **\$14.95**



MICROCHESS: A tireless opponent, always ready for a quick blitz game or a slow thoughtful one. Plays on 8 levels with excellent graphics. Available for PET, TRS-80, and APPLE. **\$19.95**

FROM APPLE COMPUTER:

(For Apple II only)

Blank Diskettes (Box of 10)	\$50.00
CHECKBOOK	\$20.00
STARTREK/STARWARS	\$15.00
COLOR DEMO/BREAKOUT	\$7.50
APPLESOFT II/FP DEMO	\$20.00
HI RES GRAPHICS/HI RES SHAPES	\$7.50
RAM Test Cassette	\$7.50
COLOR MATH DEMO/HANGMAN	\$7.50
BLACKJACK/SLOT MACHINE	\$7.50
BIORHYTHM/MASTERMIND	\$7.50
FINANCE 1-2 cassette package	\$25.00
DATAMOVER/TELEPONG	\$7.50

SOFTWARE

MORTGAGE [PMO-803] \$15.95

This program calculates mortgage information when provided with certain basic data. Calculated information includes: Principal paid to date; Interest paid to date; Total of payments paid to date; Outstanding principal; Outstanding interest; Total payments remaining; Mortgage equity; Interest and principal breakdown for any month.

ANNUAL REPORT ANALYZER [PAR-803M] \$22.95 (Manual Data Input) PET — Apple II — TRS-80

With Annual Report in hand, you input revenue and income figures for the previous five years (estimated earnings, too, if you wish) as well as basic Balance Sheet data. This Street Ware™ program computes: Percentage year-to-year growth in sales, profits, and earnings per share; Average earnings per share and compound earnings per share over 5 years; PE ratio; Profit margin for previous 5 years with a graphic display that plots revenues against profit margins; Current ratio; Book value; Return on equity; Debt to equity ratio; Payout ratio; Dividend yield; Implied growth rate; Implied total return; Theoretical PE ratio; Theoretical value for stock.

INCOME STATEMENTS				
CORP. AMCORD INC.				
TICKER	AAC	PRICE	15.50	
IND/CD	1201	P/E	6.93	
YEAR	SALES (MILLIONS)	PROFIT	EPS	SHARE
1973	11.4	1.5	1.3	1.7
1974	11.4	1.5	1.3	1.7
1975	11.4	1.5	1.3	1.7
1976	11.4	1.5	1.3	1.7
1977	11.4	1.5	1.3	1.7
EST 1978	---	---	---	---
LAST 1978	---	---	---	---

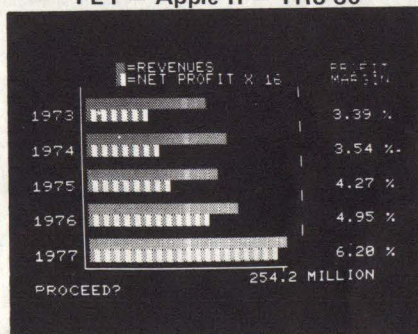
PROCEED?

GROWTH STATISTICS				
CORP. AMCORD INC.				
COMPOUND EPS		AVERAGE EPS		
26.19		27.28		
YEAR	SALES GROWTH	PERCENTAGE PROFIT GROWTH	EPS GROWTH	
1973	11.4	1.5	1.3	1.7
1974	11.4	1.5	1.3	1.7
1975	11.4	1.5	1.3	1.7
1976	11.4	1.5	1.3	1.7
1977	11.4	1.5	1.3	1.7
EST 1978	---	---	---	---
LAST 1978	---	---	---	---

PROCEED?

STOCK ANALYZER [PAR-803A] \$34.95 (Automatic Data Entry) PET — Apple II — TRS-80

(Used only with Street Ware Data Base. See below.) This tape includes a copy of ANNUAL REPORT ANALYZER [PAR-803M] on the reverse side. The program is essentially the same as PAR-803M, except that data is automatically read from Data Base tapes simply by entering ticker symbols.



BONDS [PBO-803] \$12.95

A variety of bond programs to calculate interest and yield to maturity, present value and future value of bonds, effective yield, and basis price of bonds.

CHECKBOOK [PCH-803] \$15.95

A cash receipts and disbursements program that will make it a breeze to keep accounts and up to date records. Checks can be sorted by type, e.g., medical, legal, tax-deductible, rent, food, etc.

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CHECKBOOK SELECTOR
1. READ DATA TAPE
2. ENTER TRANSACTIONS
3. CHANGE/DELETE
4. WRITE DATA TAPE
5. LIST TRANSACTIONS
6. RECONCILIATION
7. END

LINE NO.?
```

FINANCE [PFI-803] \$15.95

A variety of useful financial formulas in one simple, easy-to-use program. Includes: Compound interest, Discounts, Nominal and Effective interest, Annuities, Loans, Depreciation (see illustration at right), and Earned interest table.

DATE	STRTLINE	D-D-B	S-V-D
1973	1000	1000	1000
1974	1000	1000	1000
1975	1000	1000	1000
1976	1000	1000	1000
1977	1000	1000	1000
1978	1000	1000	1000
1979	1000	1000	1000
CUM DEP	1000	1000	1000
UNDP BAL	1000	1000	1000
HIT ANY KEY TO CONTINUE			

DATA BASE \$175.00 PER YEAR (Updated monthly; total of 12 tapes per year)

(Used with PAR-803A and/or PSS-803, described below.) Includes statistical data on over 2,500 Industrial Stocks on the New York, American, and Over the Counter exchanges. Data Base tapes are updated monthly by stock exchange on a rotating basis, i.e., twelve tapes per year. Data includes: Ticker symbol; Corporate name; Industrial classification; Revenues, earnings, and earnings per share for previous 5 years; Estimated earnings for current year; Shares outstanding; Current assets; Current liabilities; Dividends, Long-term debt. Now available in a variety of subscription plans, from \$30.

STOCKSCREEN [PSS-803] \$29.95

This program allows you to screen the 2,500+ stocks in the National Corporate Sciences' DATA BASE by any combination of: Return on equity; Yield; Payout ratio; Implied growth rate; PE ratio; Percentage growth; Debt to equity ratio; Current ratio.

OPTIONS \$24.95 (PET — TRS-80)

The National Corporate Sciences' version of the Black-Scholes equation, this program computes the theoretical value of an option. The program can be used to equal advantage by both options buyers and options writers. Value of option is graphically depicted by movement in stock price and days to expiration.

Pursuant to Rule 206(4)-1(A)(3) of the Securities and Exchange Commission, it should be noted that the above mentioned programs should not, in and of themselves, be utilized in making investment decisions. The scope and usefulness of the above programs are limited, with values in some cases being purely theoretical.

THE PERSONAL COMPUTER

The computer revolution has arrived. Everywhere, computers are changing the way we do business.

Now there are revolutionary new *personal* computers that can change the way we live and learn. These compact machines bring a new level of sophistication to the home. Become involved in a diverse range of intellectual, cultural, business, and recreational pursuits.

The personal computer, first popularized in the 1974-1976 period by expensive game-playing boxes controlled by a myriad of lights and switches --- has given way to a small, easy-to-use household appliance that can handle your home budgeting, checkbook balancing, and income tax compilation. Your personal

computer will give you a permanent record of all your business transactions, analyze stocks, manage portfolios, plan menus, help your children with their homework, eventually teach them the science of computer programming!

Best of all, the *personal* computer has limitless applications for the future to enhance and enrich your family's life.

The Computer Factory carries a complete line of personal computers. One of them may be just what you're looking for. Drop by and let one of our friendly staff demonstrate a personal computer for you.

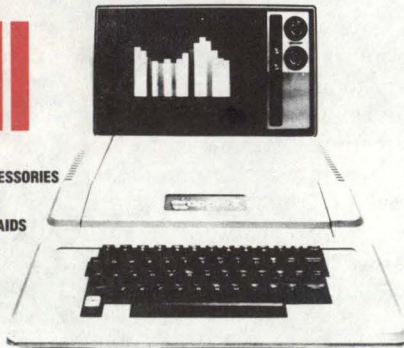
APPLE II

INTELLIGENT PERIPHERAL INTERFACES AND ACCESSORIES

SYSTEM SOFTWARE AND PROGRAMMING AIDS

APPLICATIONS SOFTWARE

DOCUMENTATION



FLEXIBLE AND POWERFUL

APPLE II is faster, smaller, and more powerful than its predecessors. And it's more fun to use too, because of advanced, built-in features like:

- BASIC — The Language that Makes Programming Fun
- Fifteen-Color Standard Graphics (in an 1,880-Point Array) for Spectacular Visual Effects
- High-Resolution Graphics (in a 54,000-Point Array) for Finely-Detailed Displays
- Loudspeaker and Sound Capability that Brings Programs to Life
- Four Hand-Control Inputs for Games and Other Human-Input Applications
- Internal Memory Capacity of 48K Bytes of RAM, 12K Bytes of ROM; for Big-System Performance in a Small Package
- Eight Accessory Expansion Slots to let APPLE II Grow With Your Needs

You don't need to be an expert to use and enjoy APPLE II. It's a complete, read-to-run computer — not a kit. Connect it to your color TV* and start writing programs the very first evening. Become familiar with BASIC, using the 125 page Programming Manual. You'll gain deep satisfaction and a feeling of accomplishment as you learn to create color games and artistic displays; or instruct APPLE II to chart your home finances. Controlling the computer is easy; using its familiar, typewriter-style keyboard and conversational BASIC language.

COLOR GRAPHICS

APPLE's advanced graphics commands make brilliant, effective, color displays something even a beginner can master. And the usefulness of color extends far beyond entertainment. Multi-color charts and graphs can "humanize" your programs for greater interest and comprehension.

HIGH RESOLUTION
— 54,000 POINT

High-resolution graphics can take you even farther. APPLE's 54,000-point color display lets you explore applications ranging from architectural design to fingerprint analysis. And you can label your diagrams with upper/lower case characters, Greek letters or special symbols. You can even define your own unique character sets.

ON-BOARD SPEAKER

APPLE II speaks for itself. In STAR WARS, you'll actually hear the phasers fire through a built-in speaker. And you can create your own music under computer control. But synthesized sound is more than a toy. Audible cues announce system functions or programming errors, so you don't have to watch the TV monitor to see what's happening. In your own programs, tones add life to games and presentations.

"PADDLES"

Up to four rotary hand controls and three pushbuttons connect directly to APPLE II (two of each come with the computer), and are used with simple BASIC commands. They assist in applications ranging from "ball and paddle" games to graphic design, where the operator interacts with figures on the screen.

APPLE II COMPUTER SYSTEMS from \$970.00

APPLESOFT II ...

EXTENDED BASIC WITH
MAJOR ENHANCEMENTS

Applesoft II is an expanded version of Microsoft's popular floating-point BASIC. Its 9-digit arithmetic and large function library make it ideal for business and scientific programs. New features like high-resolution graphics routines, cassette data STORE/RECALL, and user-programmable error messages make the language both powerful and easy to use. Capabilities include:

- 3 Data Types — Real, Integer, and String
- Data Display in either Fixed-Point or Scientific Notation
- N-Dimensional Arrays and N-Letter Variable Names (first two letters significant)
- Extensive Mathematical, Logical and Scientific Capabilities
 - EXP, LN, SQ RT., SIN, COS, TAN, ARCTAN
 - AND, OR, NOT, ABS, INT, RANDOM, SIGN
- String Operations to Aid the Business Programmer:
 - Compare: =, >, <, >=, <=, ><
 - Concatenate: +
 - Variable Type Conversion: ASC, STR, VAL
 - Substring Separation: LEFT, RIGHT, MID, LEN
- Graphics Statements that Simplify Display Programming:
 - Print Format Control: NORMAL, INVERSE, FLASH
 - Graphics Control: COLOR, PLOT, POSN, LINE, DRAW, SCRN, GRAPHICS, TEXT, HRES, ROT, SCALE, SHAPELOAD
- General Operations that Include and Extend Upon Dartmouth BASIC:
 - Program Manipulation: CLEAR, NEW LIST, RUN, CONT, LOAD, SAVE
 - Variable and Function Definition: DATA, DEF, FUNCT, DIM
 - Data Handling and Storage: READ, RESTORE, STORE, RECALL
 - Loops and Branching: FOR, NEXT, IF, GOTO, IF, THEN, ON, GOTO, ON, GOSUB, ONERRGOTO, RESUME, GOTO, GOSUB, RETURN
 - Input/Output and Format Control: INPUT, PRINT, IN#, PR#, V TAB, TAB, HOME, PADDLE
 - Machine Level Statements: PEEK, POKE, CALL, POP, LOMEM, HIMEM

Applesoft II is supplied as a cassette tape or a plug-in ROM card.

APPLE II DISK

A major development in the personal and small business market ... Best of Both Worlds. ... Mass Storage Like The Main Frames at the Cost of a Micro!!

116K per Disk ... full READ, WRITE, and SAVE commands.

PRICE — \$595



DISK OPERATIONS
NEVER BEFORE
SEEN AT THIS PRICE!

PARAMETER

Commands:

DESCRIPTION

OPEN, CLOSE, READ, WRITE, LOAD, SAVE, EXEC, RUN, APPEND, LOCK, CHAIN, UNLOCK, DELETE, MONITOR, NOMONITOR, MAXFILES, IN#, PR#, INIT, BLOAD, BSAVE Random or Sequential — arbitrary record length

Access Method:

Bootstrap Loader

Method:

Disk Drive:

Track Access

Time:

By means of Loader routine in two 256 x 8 PROMs, on-card Shugart 5-1/4" floppy disk.

Varies with number of tracks crossed. 200msec (avg.), 600msec (max. across 35 tracks)

Disk Speed and

Latency:

Disk Capacity:

Data Transfer Rate:

Physical Dimensions:

300 rpm, 100 msec avg. latency

116K bytes (formatted), soft-sectored

156K bytes per second

Card — 4.5" x 2.75" (not including connector fingers); fits inside the APPLE II

Drive — 6.1" x 8.75" x 3.8" (WDH)

Controller Capacity:

Up to two drives per controller. Multiple controllers can be used

LATEST SOFTWARE RELEASES

ELECTRIC PENCIL (TRS-80): The ultimate in word processing systems for TRS-80 from Shryer Software. **\$99.95**

BATTLE OF MIDWAY (PET): Your fleet of destroyers must defend Allied Aircraft carriers from an air attack. Squadrons of enemy fighters and dive bombers must be destroyed by your anti-aircraft gun crews. Watch planes explode. Real-time clock and great visual effects. **\$9.95**

HOSTAGE/JURY (PET): The ultimate in psychological games. Both written by an attorney from real life experiences. Terrorists have taken hostages captive and you must negotiate their release while time is running out. In "Jury" you choose the members of a jury that will try your client. How perceptive are you? **\$9.95**

CHECKERS (PET): The favorite board of all ages brought to the computer screen. This timeless game will give you pleasure for years to come as you try to beat your tireless opponent. **\$14.95**

SORCERER™ COMPUTER SPEAKS YOUR LANGUAGE

SPEAKING OF USES

Sorcerer™ Computer is User Programmable Therefore Program Selection is Unlimited

Flexibility is the key. The Sorcerer™ computer gives you the flexibility of using ready-to-run, pre-packaged programs or... Doing your own thing and personalizing the programs for yourself. Whichever you choose, the Sorcerer is the personal computer that speaks your language.

Cassette Tapes keep the expense of your program library in line with your budget for personal computing. Many application programs have been written for the Professional dealing with scheduling and forecasting, the Engineer with calculation and analysis, the Businessman with profit and loss, the Manager with personnel and reports, the Housewife with budgets and appointments and the Children with education and games.

A complete selection of programs for the Sorcerer computer with a very complete set of documentation is now available from GRT Corporation.

Personal Data Management contains programs that assist you in financial control, savings and investment planning, large loan amortization, and related applications.

Computer Aided Instruction contains interactive programs that teach you foreign language, mathematics, and BASIC programming skills.

Personal Physician offers several programs to guide you in matters such as dieting and biophysics prediction.

Casino has a number of Las Vegas-style games that won't take your money but do provide realistic odds and payoffs.

Management Aids offer a combination of programs that set up organized approaches to many small business and family situations.

Advanced Engineering and Statistics contains utility routines for problem solving in algebra and number theory, statistics, stress analysis, trigonometry, analytical geometry, and electrical engineering.

These GRT programs are ready to use and are loaded into Sorcerer with an ordinary cassette tape recorder. You will also find many other programs published in books and magazines on personal computing.

Sorcerer™ is a Computer that Can Grow with You

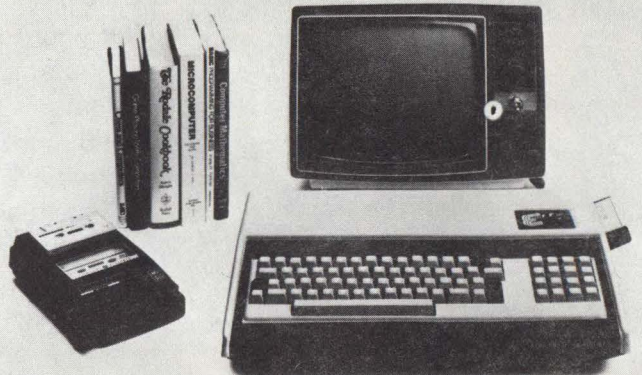
User Programmability provides a challenge to your creativity. Sure... you can play pre-packaged (canned) programs on the Sorcerer™ computer which are great for an introduction, but the real fun comes in personalizing the programs for yourself. Sorcerer allows you the freedom to explore the unexplored, be in control, and discover your capabilities.

Unique ROM PAC™ Cartridges look and handle like 8-track stereo cartridges, but inside read-only memory devices, store computer programming languages, operating systems or whatever. Programming languages are like religions and some people prefer a modern new one while others prefer an older established one. The selection of a programming language in a ROM PAC cartridge is the perfect solution. ROM PACs presently

being developed include ASSEMBLY LANGUAGE, APL, PILOT, DOS (FORTRAN, COBOL) and WORD PROCESSING. The Sorcerer computer can be configured as a dedicated computer simply by loading your proprietary software into a blank ROM PAC cartridge (example: Text Editor PAC). All Sorcerers are shipped with Standard Basic (Altair Basic, Commodore Pet Basic, Radio Shack Level II Basic, etc.). Basic is a conversational interactive language that can be used for an infinite number of applications.

Standard Basic is interactive which means you get immediate response from the computer as you input your program. This is very helpful to the first time programmer in finding mistakes and debugging the program as you load it in. This also allows you Sorcerer to be a super programmable calculator as well. Standard Basic was written to be as efficient as possible with a maximum number of features in the minimum amount of memory. Multiple statements per line, complete string manipulation and multiple dimension arrays are included with calculating speed approximating 700 floating point additions per second with seven decimal digits of precision. Standard Basic resides in 8K of read-only memory physically located inside the ROM PAC cartridge. Table 1 is a list of Standard Basic instructions and is representative of its capability.

A Power-on Monitor Program provides keyboard control of the Sorcerer at turn-on. This means you can immediately start program execution, cassette tape read and record, examine or modify registers and memory, move blocks of memory, set program break points, and do a self



SPECIFICATIONS

Features

Processor Type: Z80
Processor Clock: 2.1 MHz
Serial I/O: RS232, 300 or 1200 baud, 25 pin "D" type connector.
Parallel I/O: 8-bit input and output latched and buffered port with handshaking, 25 pin "D" connector.
Memory: Read-only memory (R.O.M.) 4K byte. Power-on monitor program connection for 16K ROM PAC program cartridge. Random access memory (R.A.M.) for 8K byte expandable to 32K byte.
Expansion: Edge card connection to S-100 bus expansion unit.
Cassette I/O: Dual recorders, 300

or 1200 baud data transfer rate, remote control of motor on/off.
Video I/O: 30 lines of 64 characters or 1,920 characters full screen, 128 full ASCII character set, 64 defined graphic characters and 64 user defined characters; alternatively all 128 graphic characters may be user defined. 512 (horz.) x 240 (vert.) graphic resolution.
Automatic scroll, erase end of line and end of screen, delete character, erase screen.
Cursor Home, Up, Down, Left, Right.
Cabinet: Dimensions 19.25" x 13.0" x 4.0", weight 13 lbs.
Power: 110-125 VAC, 50-60 Hz
Fuse: 1 AMP SB 110 Volt

Accessories

ROM PAC™ Cartridges: (Standard Basic Included)
Media: 8-track cartridge enclosure, read-only memory on PC board.
Programs: STANDARD BASIC ASSEMBLY LANGUAGE, PILOT, DOS (Fortran, Cobol)
Cassette Tape: Media: Standard Phillips cassettes
Programs: Casino, Personal Physician, Personal Data Management, Management Aids, Computer Aided Instruction, Advance Engineering.
Compatible Cassette Recorders: Lloyd V899, Sanyo ST50, Superscope 6180, General Electric 3-5012.
Compatible Video Monitors: Eidy monitor, Hitachi P-05M Receiver Monitor.

GRAPHICALLY SPEAKING

test for operational condition. Or, if you choose, the power-on monitor will default to a ROM PAC cartridge for program execution. The power-on monitor program resides in 4K of read-only memory and is always present in the computer.

Table 1 - Standard Basic Commands and Statements

Statements			
Let	Rem	Fn	Wait
Then	Stop	Data	On..GoTo
GoTo	Def	Dim	If..GoTo
Restore	Print	GoSub	On..GoSub
Return	Next	Input	If...gosub
Read	Get	Out	
For	Step	End	
Commands			
Run	Null		
List	CSave		
New	CLoad		
Clear	Peek		
Cont	Poke		
Mathematical Functions			
Abs	Int	Sgn	Tan
Atn	Exp	Sin	Usg
Cos	Log	Sqr	And
Pos	Exp	Or	
Fre	Rnd	Tab	Not
String Functions			
Asc	Str\$		
Len	Mid\$		
Val	Left\$		
Chr\$	Right\$		
Operators			
=	+	-	*
/	<	>	=
^	!<	>=	
Editing			
@	Control C	?	Return
←	Control 0	:	Return

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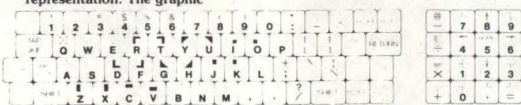
Sorcerer's 512 x 240 Graphics Offer High Resolution Pictures, and a Picture is Worth a Thousand Words.

Animated Graphics add a new dimension to your programming. Sorcerer's character graphics make programming pictures as easy as putting messages on the screen. A beginner using the print statement in BASIC can build pictures of his wildest imagination. The typewriter style keyboard has a graphic key and unique graphic symbols engraved on the keys for use in the same manner as shifting for uppercase on a typewriter. By depressing the graphic and shift lock keys you may use the graphic symbols as though they were text and create any image you wish to display. Character graphics are an easy introduction to the concepts and uses of graphics in computer systems.

User Defined Graphics Symbols allow you to be creative in symbols or geometric forms, including foreign language or even new computer language symbols. Sorcerer has a selection of 256 characters of expression. 128 are fixed and predefined, while the other 128 are programmable as to their symbol representation. The graphic

character is created within an 8 x 8 dot matrix and any combination of the 64 dots per character space may be displayed on the screen as opposed to a bit per element graphic system. 64 graphic symbols have been pre-programmed and represented on the keyboard for simplicity. The other 64 programmable characters have been reserved for your selection and creativity. Alternatively the entire 128 characters associated with the graphic key may be user defined. Graphics bring out the artistic qualities in everyone and user-defined graphics allow for true freedom of expression.

Upper and Lower Case Alphanumerics are included in the 128 pre-defined and fixed character set. Your keyboard is truly a typewriter with this feature and letter writing or text editing becomes practical. With thirty lines of text the Sorcerer puts more information on the screen than any other personal computer. To be exact, 1,920 characters are visible at any one time before automatically scrolling to the next page. The keyboard and numeric pad provide the interaction and communication with Sorcerer. Since the keyboard style is familiar to most typists, information entry or retrieval is as easy as typing a letter.



The Sorcerer has a professional data processing, typewriter style keyboard with 16 key numeric pad for rapid information entry or inquiry. The keyboard consists of 79 keys of upper/lower case alphanumeric and

graphic characters. Actual life tests have exceeded 300,000 cycles without failure. There are special editing and control keys in addition to the ability to assign any special symbols or characters to any key position.

TECHNICALLY SPEAKING

Modularity is flexibility. Sorcerer's keyboard enclosure contains the complete electronics for a computer system. The block diagram indicates what is standard and what is optional.

Z80 Microprocessor is the most advanced central processing unit (C.P.U.) on a chip. It is the heart of Sorcerer™ and features an expanded instruction set and higher speed of computation than other C.P.U. chips.

32K Random Access Memory Expansion On-Board allows for even the most generous programmer. Sorcerer comes with 8K of RAM memory for user program workspace. You can purchase additional memory in 16K for a total of 32K. As you grow in expertise and sophistication, so will your memory requirements. Sorcerer can handle it.

Dual Cassette I/O for mass storage of application programs is provided at both low speed (300 baud) data transfer rate or a high speed (1200 baud) data transfer rate. The quality of your cassette recorder will determine which speed rate to select. High speed usually requires a high quality recorder. On/off computer control of the cassette drive motor is pro-

grammable.
Parallel I/O is provided for attachment of any 8-bit peripheral device. I/O lines are buffered and latched with status included.

Serial I/O makes a smart terminal out of the Sorcerer™. To communicate (RS232, 300 or 1200 baud) with other computers either big or small, professional or personal is possible by a telephone hookup (Modem) or direct line tie to the serial inter-

face connector.
Expansion and Growth capabilities are built into the Sorcerer™. Eventually the time will come when you feel the need to expand your system. The S-100 BUS expansion unit gives you immediate access to over 100 manufacturers of peripheral devices. You can inter-connect large memories, disk drives, industrial controls, speech, and communications.

SORCERER™ COMPUTER SPEAKS YOUR LANGUAGE

SORCERER PRICES:

8K RAM\$895
16K RAM \$1,150
32K RAM \$1,395

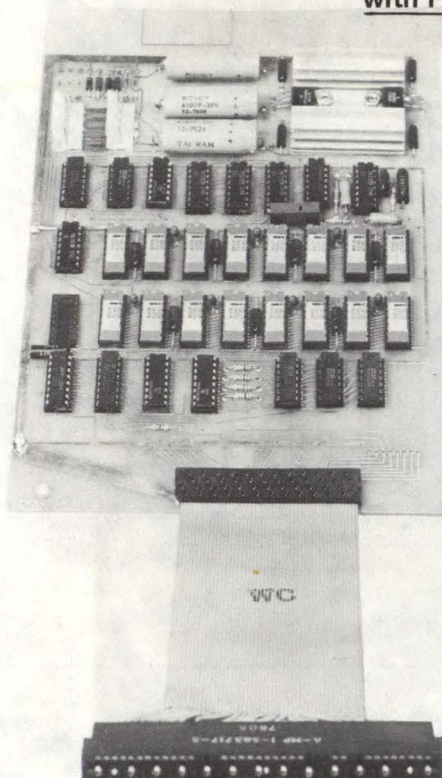
SPECIAL PRICES
ON VIDEO MONITORS
SAVE UP TO \$234!!!
(See left)-

SORCERER

SPECIAL
12" Video Monitor
for SORCERER
(\$299 value)
ONLY
\$125 with 8K unit
95 with 16K unit
65 with 32K unit

Get your PET up to 32K
with PME — MEMORY EXPANSION
for ONLY \$595!!!

PET PERIPHERALS



- Mounts easily inside your PET chassis
- Uses your PET's transformer without degradation of your system
- Full 6 month limited warranty
- Full manual with graphic display memory test that shows chip layout

NOTE: Peripherals above are NOT Commodore products.

ONE-WAY SERIAL INTERFACE \$169

Allows you to obtain hard copy printouts using any standard RS-232 serial printer (IBM, Diablo, Teletype, GE) Specify Baud rate and and printer when ordering.

TWO-WAY SERIAL INTERFACE \$295

Unlike other serial interfaces, this interface is bi-directional (both ways) thereby allowing the printers keyboard to program the pet) and has switch selectable port number and baud rate thereby making it compatible with other peripherals.

TWO-WAY/TWO CHANNEL \$335

Same as above, plus the ability to daisy chain another peripheral using the same board (eg. a modem, another PET etc.)

MODEM \$375

Auto Originate/Answer (Software Selected/enabled). Baud rate of 75 to 600 bps. Directly compatible with "CBT" type equipment available from all phone companies.

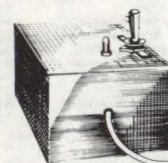
S-100 4-SLOT EXPANSION INTERFACE/MOTHERBOARD . . \$160

Allows the use of up to four S-100 boards, or make the PET the CPU in an S-100 chassis.

PET TO CENTRONICS PRINTER INTERFACE. \$199

Allows you to directly connect the PET to any parallel printer, such as Centronics, Anderson Jacobson, Integral Data, Axiom, Expander, etc. Can be strapped to any of the IEEE's 21 channels (compatible will all Commodore's future peripherals).

MUSIC BOX
Add music and sound effects to your programs. Compose, play, and hear music on your pet. Completely self-contained (no wiring). Free 3 programs including Star Wars theme, sound effects, etc. \$39.



THE COMPUTER FACTORY, INC.
485 Lexington Avenue (near Grand Central)
New York, New York 10017
(212) 687-5001 or (212) PET-2001

Sorry, but we cannot accept credit card orders under \$75.

Qty	Description	Price	Amount
SHIPPING CHARGES—Add \$10 for Computers, \$8 for Axiom or Expander Printers, \$3 for Boards & Interfaces, \$.25 each cassette. Foreign Orders—Add \$25 handling.		Subtotal	
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Master Charge & VISA Phone Orders:		(N.Y. Residents only)	
1-800-223-7318		Shipping Charges	
		Total	

☐ My check in full payment is enclosed.

☐ Please charge my Master Charge/VISA Account Number: _____ Exp. Date: _____

Signature: _____

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INTRODUCING DUAL DRIVE MINIFLOPPY FOR PET!

PET DISKS ARE COMING!!!

PET DISKS ARE COMING!!!

The Commodore disk will be introduced nationally on January 7, 1979. The price of the dual drive (178K per disk) is going to be in the \$1100 to \$1200 price range, according to recent magazine articles. Call us after January 7, 1979 for pricing and ordering information. Or, better yet, send us a \$50 fully-refundable deposit, and we'll work to get you the fastest possible delivery date! Remember: The Computer Factory's Service Department usually gives 24-48 hour "turnaround" time on all PET products brought or sent in for repair!!!

Apple II EPROM Expand Your ROM Software

\$99.95

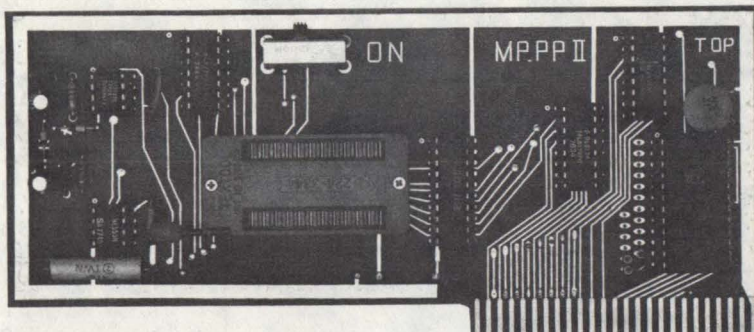
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Add capability to your system monitor or BASIC for business or other applications. Add commands to the operating system. New operating systems can be put into EPROM memory with our EPROM programmer and plugged directly into your APPLE II board with our EPROM socket adaptor. The **MICROPRODUCTS** EPROM Programmer will program INTEL 2716s, 2758s and other 5-volt replacements for 2716s.

Add to or replace existing APPLE II ROM software with operating systems of your own design. Other software systems similar to PASCAL, FORTH, LISP, APL, FORTRAN, COBOL, ALGOL, other BASIC's, etc. may be incorporated into your APPLE II ROM space.

The EPROM Programmer looks just like memory to the computer and can be configured to program memory locations from 8000 to FFFF for a total of 32K bytes. This means that the EPROMs can be used in computer applications other than the APPLE II, i.e. the **MICROPRODUCTS** Superkim, etc. This turns your APPLE II into a very low cost powerful, software development system.



FEATURES:

- Fully assembled.
- Completely self-contained
- Textool Zero insertion force socket for EPROM
- Onboard 25 volt power supply
- Double sided plated through holes on fiberglass PC board
- Gold plated edge connector
- Fully socketed
- Latest low-power Schottky IC's
- Solder mask

ADVANTAGES:

- Put memory in two empty ROM slots in APPLE II
- Replace memory in existing APPLE II ROM slots
- Add new operating systems to APPLE II
- Programs INTEL 2716 2K byte EPROM's, 2758 1K byte EPROMs and other compatible 5 volt EPROMs
- Put peripheral drivers in permanent memory
- Use APPLE II to program EPROMs for other computers

APPLE INTROL SYSTEM. \$329

Introl Remote Control Systems lets you extend the reach of your Apple II to monitor and control AC devices remotely. Turn on the lights. Turn them off. Turn on the stereo or TV. Sprinkle the lawn. Turn on the security system automatically when you're gone. Operates over your existing AC wiring. That means any AC socket can be a control point. No additional wiring. The Introl System consists of an AC Controller which transmits commands over AC wiring and Dual Channel AC Remote boxes which receive and execute commands.

APPLE REAL TIME CLOCK \$199

1/1000 second to 388 days with interrupt at the change of any 1 second digit. Software controllable. Battery back-up with 9 volt nickel-cadmium battery on the board to run clock 4-5 days when AC power is off!

MICROPRODUCTS EPROM Programmer \$99.95

MICROPRODUCTS APPLE MODEM \$129.95

APPLESOFT II IN ROM. \$200

COMMUNICATIONS CARD \$180

APPLE II DISK DRIVE \$595

12" VIDEO MONITOR FOR APPLE \$149

CARRYING CASE \$30

ROBOT CONTROLLED CAR \$249

An exciting new computer controlled peripheral for the Apple providing action-at-a-distance. Car can be controlled from keyboard or, voice control using Speechlab or under program control.

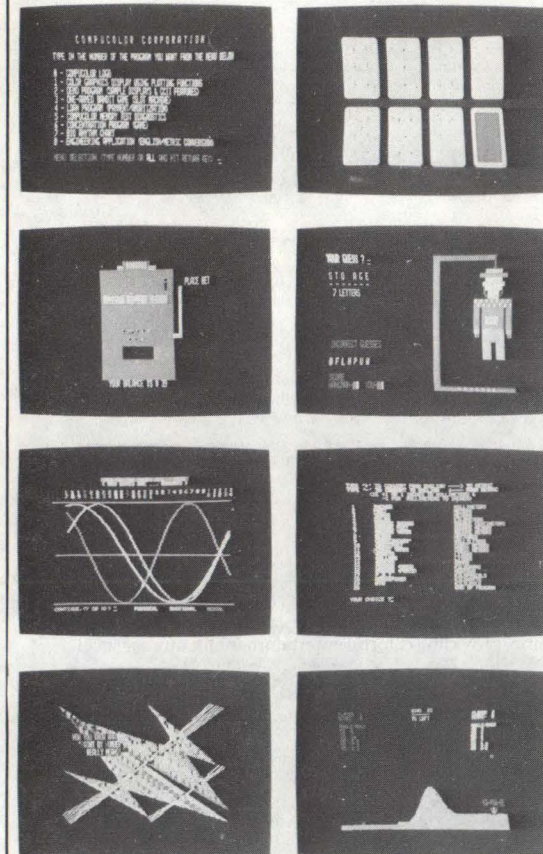
SPEECHLAB \$189

Provides voice control for the Apple. Train your Apple to understand and act upon the spoken word.

The Renaissance Machine is a one-of-a-kind system for the one-of-a-kind person who demands, and will not settle for anything less than, the best.

Color graphics display.

The Renaissance Machine features a color display with 32 lines and 64 characters per line, two different character sizes and special graphics characters. It includes advanced color graphics, and state-of-the-art, high-density memory components.

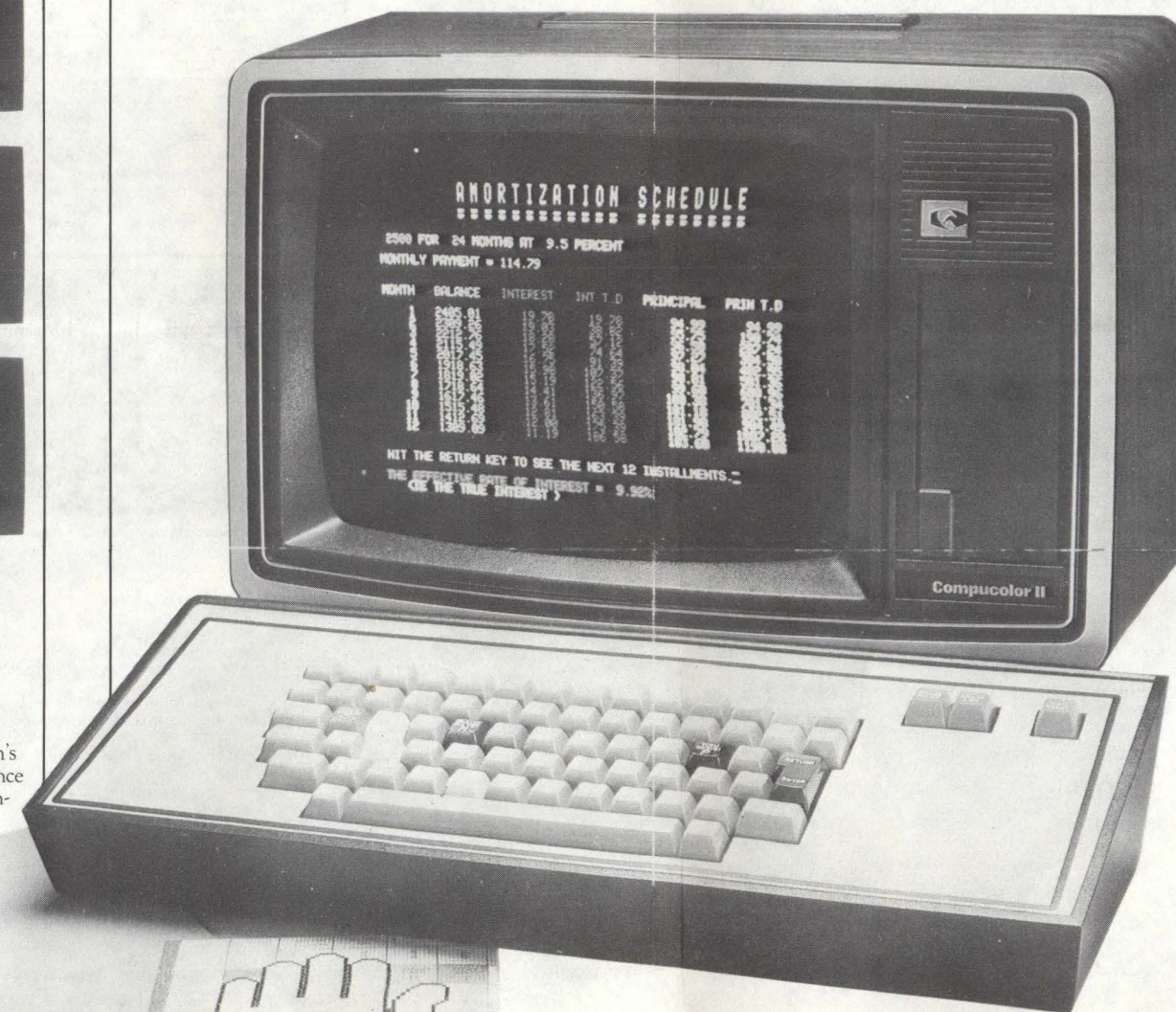


24-hour private tutor.

Compucolor II will become an integral part of your children's growing up. They can benefit from Math Tutor, a Renaissance Machine diskette program designed to help them over arithmetic hurdles. And remember Hangman, the classic word game? It's been transformed into a colorful and exciting computer game. With our Hangman diskette album, your children will have fun beefing up their vocabulary and spelling skills. More than that, they will be getting an early opportunity to participate in the computer revolution. Think about it. Don't you really owe it to your children to give them this chance?

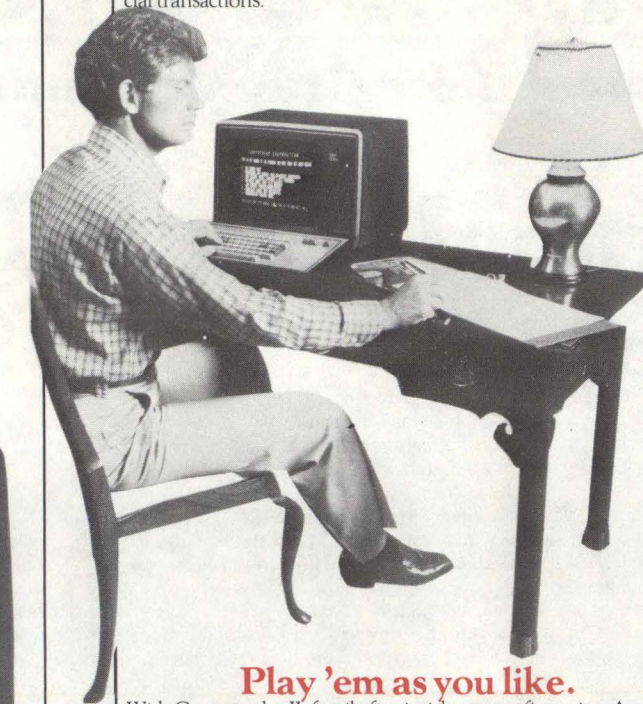
The Renaissance Machine.

The complete personal computer for all ages.



Money matters made easy.

With our Personal Financial Series of programs, you can compute and store information about loans, savings, bonds and securities, and equity. Use The Renaissance Machine for check-book balancing and income tax compilation. There's a Compucolor programmed diskette album available right now. Load your records into memory, transfer them to a blank diskette, and you'll have a permanent record of all your personal financial transactions.



Play 'em as you like.

With Compucolor II, family fun is right at your fingertips. A variety of computer games can be played on your Renaissance Machine, providing colorful entertainment for any age level. And you don't have to be a programmer to play. Just use our Compucolor II programmed diskette albums. Each one contains two to six



games, already programmed and set to go. See the back cover for a list of programs available now at your Compucolor dealer. And remember, more are being developed all the time. Be sure to check often, and keep your library of albums up to date.

NOW AVAILABLE ...

Compucolor® II

A Unique Personal Color Graphics Computer System
Model 3 (Priced at \$1495.00)

NOW AVAILABLE ...

Compucolor[®] II

A Unique Personal Color Graphics Computer System

Compucolor II Specifications

Keyboard

Separate keyboard with Standard ASCII 4 level, coded with 192 codes. Includes 71 gold crossbar commercial key switches. CPU Reset and Automatic disk loading (AUTO) keys are included. Optional: 101 keys with color and numeric clusters or 117 keys with 16 additional function keys.

Microcomputer

Central Processing Unit: 8080A, 2 microsecond cycle time with total memory expandable to 64K bytes.

Read Only Memory (ROM): 16K bytes of non-destructive read only. Memory sockets included for 8K bytes of additional EPROM/MROM memory. Includes DISK BASIC, File Control System, and Terminal Software.

Random Access Memory (RAM): 4K bytes for screen refresh. 8K bytes for user workspace. (Optional 16K and 32K—Models 4 and 5.)

Input/Output Ports: system is designed for 478 ports, with 30 ports implemented in standard unit. Including one RS-232C Serial Asynchronous Channel for a printer or modem.

50 pin bus: provides all addresses, data, clocks, etc., to allow the Compucolor II to be expanded with additional peripherals in the future.

CRT Terminal Commands: Page/Roll Mode; Erase Line; Erase Page; Tab; Two Character Sizes; Blink; Cursor Home, Left, Right, Up and Down; Cursor XY Addressing; Caps Lock; CPU Reset; Foreground/Background Color Selection; 15 Plot Modes; Blind Cursor Mode; Local, Full and Half Duplex Modes; Write Vertical Mode; and Transmit Cursor and Page Modes.

Language: DISK BASIC 8001 interpreter in ROM memory includes: 29 statement types: CLEAR, DATA, DEF, DIM, END, FILE, FOR, GET, GOSUB, GOTO, IF, INPUT, LOAD, NEXT, ON, OUT, PLOT, POKE, PRINT, PUT, READ, REM, RESTORE, RETURN, SAVE, STEP, THEN, TO and WAIT. 3 command types: CONT, LIST and RUN. 19 mathematical functions: ABS(x), ATN(x), CALL(x), COS(x), EXP(x), FN(x), FRE(x), INT(x), INP(x), LOG(x), PEEK(x), POS(x), RND(x), SGN(x), SIN(x), SPC(x), SQR(x), TAB(x), and TAN(x). 9 string functions: ASC(x\$), CHR\$(x), FRE(x\$), LEFT\$(x\$,I), LEN(x\$), MID\$(x\$,I,I), RIGHT\$(x\$,I), STR\$(x) and VAL(x\$). 12 Disk File commands: COPY, DELETE, DEVICE, DIRECTORY, DUPLICATE, INITIALIZE, LOAD, READ, RENAME, RUN, SAVE, and WRITE.

Baud Rate: Independent Baud rate generators for one of 7 Baud rates from 110 Baud to 9.6K Baud.

Mini Disk Drive

Uses 5 1/4" square Compucolor II diskettes.

Tracks: 40

Track Density: 48 tpi

Power on Delay: 1 second

Access Time: (average 20 tracks) 200 ms

Average Latency: 200 ms

Transfer rate: 76.8 Kilobits/sec.

Performance specifications:

Capacity formatted 51.2K Bytes/Side.

Both sides usable by flipping diskette over.

CRT Display

Eight color display with 32 lines of 64 characters (2048 characters). Two different character sizes. Plotting graphics of 128 x 128, including vector generating software. 64 standard ASCII characters and 64 additional special graphic characters. Includes a Standard RS232C Terminal Mode for time sharing use. 60Hz refresh. Usable screen area 9" wide x 6 3/4" high.

Programmed Diskette Albums Available for the Compucolor II

Sampler (Includes: 1. Demo Program of Sample Displays and CCII Features; 2. Game of Concentration; 3. One-Armed Bandit; 4. Biorhythms, 5. Loan and Repayment Schedule; 6. Memory Diagnostics for the CCII; 7. Engineering Application.)

Math Tutor: Math Tutor, Checkbook, Recipe Program, Math Dice, Biorhythms

Star Trek: Star Trek, Lunar Lander, Shoot, Tic-Tac-Toe

Hangman: Hangman, Math Tutor, Two to Ten

Model 3 (Priced at \$1495.00)

INCLUDING FOLLOWING STANDARD FEATURES:

- 13" Color CRT (8 Colors) with Special Graphics Pkg.
- 16K Extended Disk Basic
- 8K RAM Memory
- 71 Key Keyboard
- Minidisk Drive—51.2K Bytes/Side
- 64 Characters/Line with 32 Lines/Page
- 8080 Microcomputer System

Chess: Chess, Acey Deucey, Line Five, Biorhythms

Othello: Othello, Math Dice, Concentration (Numbers), Concentration (Letters)

Text Editor

Assembler for the 8080

Some programs may require additional RAM memory.

Prices

Model 3—8K user RAM—\$1,495 Retail*

Model 4—16K user RAM—\$1,795 Retail*

Model 5—32K user RAM—\$2,395 Retail*

Warranty 90 days

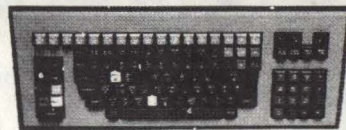
Available options

Second Compucolor II Micro-Floppy™ disk drive —\$500

Expanded Keyboard: 101 keys with color and numeric clusters—\$150*



Deluxe Keyboard: 117 keys, including 16 additional function keys—\$225*



Additional 16K RAM Module (only for Model 3 and 4)—\$750*

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COMPUTER FACTORY BUSINESS SYSTEMS
THE COMPUTER STORE WITH A DIFFERENCE

At the Computer Factory, we support the entire system you purchase. We service the hardware on your premises, and we guarantee response time. Your software is under warranty for the life of your system. We customize your software for unique and divergent applications, and we tell you -- in advance -- exactly what the work will cost and precisely what the finished product will do -- in writing. Our warranty states, simply, that if the software ever fails to perform as specified, for as long as you own your system, we will fix it without charge.

The Computer Factory is a business systems house

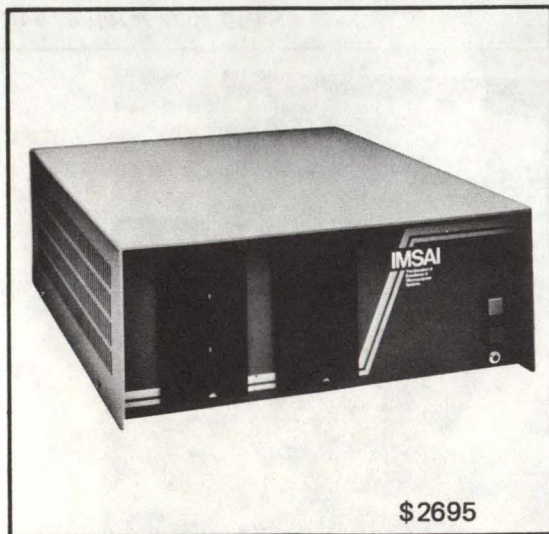
-- not a hobbyshop. A hobbyshop will: (1) sell you a computer with a warranty on hardware, but with packaged software -- which may or may not do what your business needs; or (2) attempt to convince you that programming is a snap and that you can fix the software yourself; or (3) send you to a consultant for programming and accept no responsibility at all for the outcome. Test this yourself. Ask a dealer to modify software to fit your business and warranty the outcome.

A computer system is an important investment. The system will service vital aspects of your business. Be sure you are buying from professionals!

IMSAI'S NEW SERIES OF DUAL-FLOPPY COMPUTER SYSTEMS



The IMSAI Video Data Processor, the VDP-80, is a general purpose computer with an integrated floppy disk system. The VDP-80 is designed to meet the informational needs of small businesses, major corporations, and academic and scientific communities. Floppy disks are a versatile medium for handling large volumes of data at rapid rates, making them especially useful in business applications. Disks are reusable and can easily be corrected or updated. Data can be entered and recorded on diskettes at remote locations, such as branch sales offices, then can be mailed or carried to a central location for further processing.



SYSTEM FEATURES -

Fully Integrated Computing System in a
Single Cabinet
High Speed 8085 Processor
80x24 Video Display
Dual Floppy Disk System
Double-Density Dual Floppy Disk System
Integrated CRT display
Microprocessor-Driven Keyboard with
N-Key Rollover
12-Key Numeric Keypad
12-Key Cursor Control Keypad
Terminated/Regulated 7-Slot Motherboard
Heavy Duty Power Supplies
Printer/Modem Port Included
32K RAM Memory Included
2K ROM Monitor Included



Designed for the office or for the home, the IMSAI Video Data Processor, the VDP-40, places a microcomputer well within the budget of the average small businessman or systems developer. The VDP-40 may be used to computerize the accounting and inventory functions of a small business. The VDP-40 can communicate to additional VDP-40s or other 8080/85-based computers, and can act as a terminal in a data communications network.

The VDP-40 is a fully integrated system, featuring an 8085 microprocessor, 32K or 64K RAM memory, two 5¼-inch floppy disks, 9-inch CRT, heavy-duty power supply, professional keyboard, terminated/regulated motherboard, and serial and parallel I/O ports in a handsome cabinet.

PRINTERS PRINTERS PRINTERS

THE PRINTERS ARE HERE! — SMALL — LARGE — SERIAL — PARALLEL
 THE COMPUTER FACTORY — the Printer Specialist — has printers for all MICROS:
 PET — APPLE — TRS-80 — ALTAIR

Here is just a sampling of our large line of impact and thermal printers:

CENTRONICS

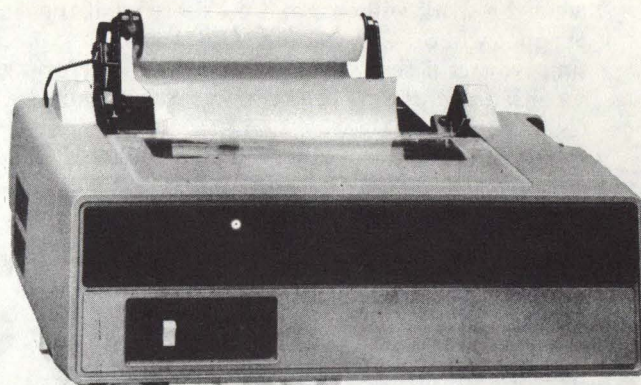
Centronics offers a full line of high speed, low cost, quality printers.

The 700 Series is a direct response to the Business community's need for a truly user-oriented family of low/high speed printers.

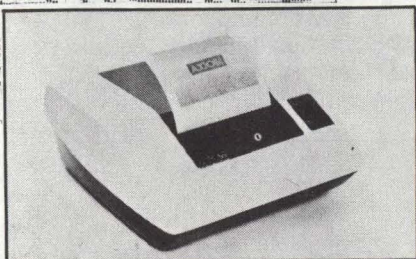
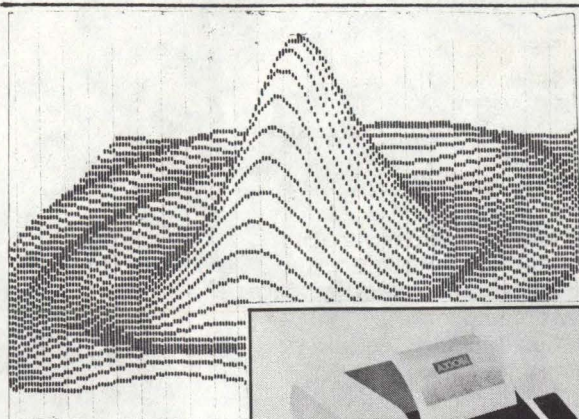
Model 779—only \$1045 (with tractor feed add \$100)

5 X 7 dot matrix . . . IMPACT PRINTER. . 80 to 132 columns - adjustable 21 lines per minute 60 cps
 Modular construction . . . takes full size paper — multicopies.

Perfectly suited for the SMALL BUSINESS
 Turns the hobbyist into a Professional!



SPEED PRICE
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Small . . . Lightweight . . . Portable . . . AN IMPACT PRINTER
 80 columns wide . . 10 cps . . print cylinder — not a matrix . .
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SPECS: 60 characters per second 8½ roll,
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Yes! Prints all PET graphic characters, too!!!

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 This fully-refundable deposit will reserve you a
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ALL THE PRINTERS ON THESE TWO PAGES WORK WELL WITH ALL POPULAR PERSONAL/BUSINESS COMPUTERS, INCLUDING — TRS-80, PET, APPLE, IMSAI, COMPUCOLOR, SORCERER, HEATH.

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NEW: PET INTERFACE TO CENTRONICS, INTEGRAL DATA, OR A.J. parallel printers. Logical Device number is switch-selectable to conform to IEEE requirements (up to 21 channels). Unlike others, this interface will be compatible with floppy disk and other Commodore peripherals! \$199

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(Use both printer and modem simultaneously!)

RADIO SHACK TO CENTRONICS \$59
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APPLE HI-SPEED SERIAL \$200
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APPLE PARALLEL \$180

Inquire for other interfaces.



AJ 841 I/O TERMINAL

The Computer Factory recommends the AJ 841 I/O Printer for systems where word processing is required.

The AJ 841 Features:

- Choice of Serial RS 232 or parallel interface
- ASCII code
- 14.9 cps printout
- High quality Selectric printing
- Reliable, heavy-duty Selectric mechanism
- Off-line use as typewriter

PARALLEL — \$1095
SERIAL — \$1195

The BrighterWriter™



Integral Data Systems, Inc.

When a few dollars more buys you a first-class impact printer, why settle for a toy? The BrighterWriter gives you quality to start with. And versatility that stays even if you outgrow your present personal computer.

Built smart like the big ones.

The BrighterWriter's a smart printer. There's a microcomputer inside. It outwits even the bigger, higher-priced printers. So you get versatility to do all kinds of printing. And power to grow on.

Prints fat, skinny, tall, small.*
This printer can be as creative as your imagination. Stretch out your characters. Squeeze them close. Make them high. Low. Bold. Banner. You name it.

Plugs into your computer.
Most popular personal computers interface to the BrighterWriter. Simply and quickly. Hundreds of BrighterWriters are working in Apple, TRS-80, Heathkit, S-100 and many other personal computer systems right now.

Pictures and fancy symbols.*
The BrighterWriter draws out your creativity. You can print drawings, graphs, diagrams, bold symbols, or just about any graphic you can imagine.

Picture your page as thousands of dots. The BrighterWriter can fill in the dots, plot them contiguously, stack them, or scatter them. And its special set of graphic characters simplifies the process.
Prints any character a typewriter can. Faster. . .
The BrighterWriter can print plain and simple. With 7x7 dot matrix clarity. You get all the letters, numbers, and standard symbols of a regular typewriter. At up to 80 cps throughput.
Ordinary paper.
Fancy or plain, the BrighterWriter prints on ordinary paper. Better yet, it prints on many shapes of paper. Single sheets. Roll. Fanfold.
Want more copies? The BrighterWriter prints multiple copies without extra adjustments.
Four easy buttons.
Operating the BrighterWriter couldn't be simpler. Up-front controls are easy to get to. A power

button to turn it on. A test button to self-test your printer. A paper feed button to advance the sheets or forms. A line feed button to advance the paper a line at a time.

Prints any-which-way.

The BrighterWriter comes in two models. The IP-225, at \$949, gives you a BrighterWriter with tractor-feed drive for precision forms control. This one can handle everything from labels to 8½" paper widths.

It has eight form lengths and gives you all the features of our IP-125.

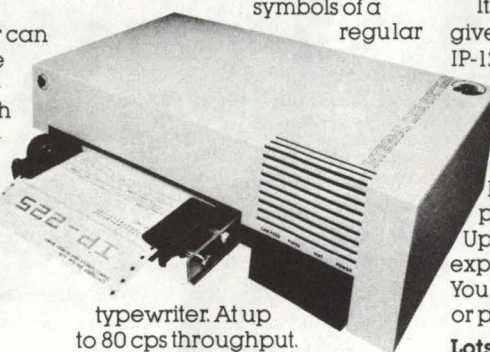
A brighter buy.

Our IP-125, friction-feed, BrighterWriter has a 96 character set and prints on 8½" wide paper. Upper and lowercase. It prints expanded characters, too. You can choose a RS-232 serial or parallel interface. \$799

Lots of goodies.

There's more. Choose all kinds of options for your BrighterWriter. Up to 132 characters per line, variable character densities, larger buffers, special graphics packages, interface cables, and more. Give us a call or write.

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Our IP-125, friction-feed, BrighterWriter has a 96 character set and prints on 8½" wide paper. Upper and lowercase. It prints expanded characters, too. You can choose a RS-232 serial or parallel interface. \$799

Lots of goodies.

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*Some of these advantages require extra-cost options.

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Are you one of the growing number of businessmen who see an opportunity in the computer revolution? If so, then you may also have discovered that very few organizations selling computers have your foresight. . . If you've paid them a visit, without glossary in hand, you've surmised that "Business" and "Computer" can be very *different* languages.

At **The Computer Factory**, we make it a point to know business *and* computers! Our staff includes individuals with many years of experience in business, in data processing, and, specifically, *in business data processing*.

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The **Data General microNOVA** is a *powerful, expandable, and reliable* minicomputer. Backed by a company with over 40,000 users around the world and a nationwide network of experts to service and support you.

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microNOVA computer system, with
48K bytes of memory —

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*Includes Dual diskette, microNOVA processor, 48K bytes memory, Console debug, Automatic program load, Disk Operating System, 96 character display terminal.

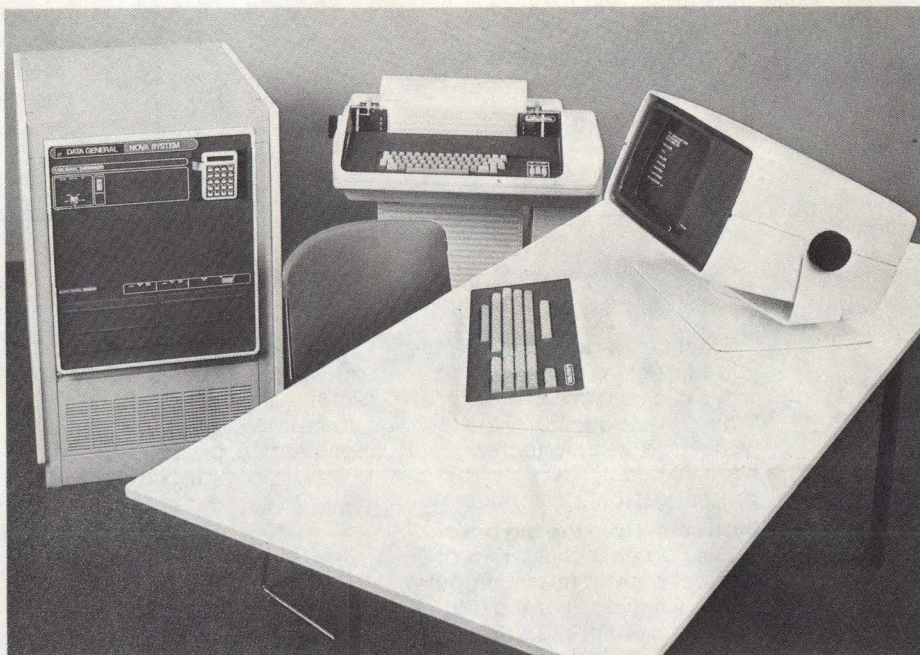
microNova:

Micros That Are Really NOVA Computers

MicroNOVA is a high performance, state-of-the-art microprocessor-based family with 16-bit NOVA computer capabilities. It's available as a chip, a chip set, a board, and a fully-packaged MOS minicomputer.

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The microNOVA family uses NOVA computer development and runtime software proven in over 40,000 installations around the world. The diskette-based Disc Operating System (DOS) is part of Data General's Real-time Disc Operating System (RDOS) family. It supports NOVA computer utilities like an enhanced editor, MACRO Assembler, relocatable loader, and symbolic debugger, and brings real-time FORTRAN IV and DOS BASIC to the micro market. Runtime software includes Data General's proven Real-Time Operating System, and libraries for arithmetic subroutines, character handling, and I/O.



FEATURES

- Fully packaged system using Data General's state-of-the-art NMOS technology, including a 40-pin CPU chip and 4K Random Access Memory chips
- Available as an 18-slot microNOVA minicomputer with 16K-word memory and 315K-word diskette subsystem in a 72" cabinet with choice of free-standing terminals
- Standard handheld multifunction programmer's console
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- Up to 100' of external I/O bus
- Additional RAM and PROM memory to 32K words system capacity
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Recognizing that a computer without software doesn't solve business problems, The Computer Factory is offering the following packages for the microNOVA. If you don't see what you want here, tell us your problem. . . we customize software for unique applications.

GENERAL LEDGER PACKAGE

1. Includes complete Chart of Accounts file maintenance: add, change, delete, and list. The Chart of Accounts record contains: account number (7 digits: 4 digit main account number, 3 digit subaccount number) account description, three special codes for formatting the Financial Statements, and up to 13 periods of budgeting and last year comparative information. The 3 digit subaccount may be used to designate "profit centers."
2. Allows interactive entry and editing of General Ledger transactions. The data entered is: account number (with automatic verification and display of account description), date, debit/credit amount, source (a 3 character abbreviation for the document or system from which the transaction originated), and up to 30 characters of detailed reference.
3. Prints the "General Ledger Transaction Register" showing the data entered in step 2 above.
4. Automatically posts new transactions (from steps 2 and 3 above) to the main General Ledger year-to-date transaction file. (New transactions must be in balance before they can be added to the year-to-date file.)
5. Prints the "General Ledger Trial Balance" on request for any specified period (starting and ending dates). Shows the beginning balance, detailed credit and debit transactions, and ending balance for each account. At the operator's option, details may be omitted, thereby showing only summary figures for each account. May be printed for selected or all profit centers.
6. Prints the "General Ledger Source Cross Reference" on request for any specified period (starting and ending dates). Shows the General Ledger transaction entries for each source. May be printed for selected or all profit centers.
7. Prints the User formatted Financial Statements, including the Profit and Loss Statement, the Balance Sheet, and Supporting Schedules. The Financial Statement formatting codes provide considerable flexibility for these reports. The Financial Statements may be printed for any specified period (starting and ending dates) and for selected or all profit centers. Optionally, budgets may be shown on the Profit and Loss Statement and last year comparatives on the Balance Sheet. Budgets or comparatives may also optionally be shown on the Supporting Schedules.
8. At the User's option, the Accounts Receivable, Accounts Payable, and/or Payroll systems may be automatically interfaced into the General Ledger at month end.
9. Other miscellaneous support programs.
10. Approximate record sizes: Chart of Accounts record - 292 characters; New Transaction record - 58 characters; Year-to-date Transaction record - 58 characters.

ACCOUNTS PAYABLE PACKAGE

1. This is an accrual system.
2. Has complete Vendor file maintenance: add, change, delete, and list. The vendor record contains: vendor number, name, 2 street address lines, city, state, zip, total dollar amount billed, and number of vouchers year-to-date.
3. Allows interactive entry and editing of New Payables (includes credits and prepaids). A "voucher number" is automatically assigned to each invoice entered. The data entered is: vendor number (with automatic verification and display of vendor name), invoice number and date (one invoice to a voucher), invoice amount, discount percent or amount (if applicable), and due date. For prepaids, the check number and check date are also entered. The distribution of the invoice to the General Ledger must also be entered. Distribution may be against up to nine General Ledger accounts for each voucher. G/L account numbers are interactively verified and the account description displayed on the CRT. The full invoice amount must be distributed.
4. Prints the "Accounts Payable Voucher Register" showing the data entered in step 2 above, with totals.
5. Prints the "Accounts Payable Aged Trial Balance" on request, either for all vendors or for selected vendors. Aging is by invoice date. At the operator's option, the detail within each vendor may be suppressed, thereby showing only the summary aged subtotals for each vendor.
6. Prints the "Cash Requirements Report" on request for the specified due date. This report shows all items due (by vendor), plus any discounts valid or lost on the specified payment date.
7. Payment of open items may be by either Deferral or Selection. In the deferral method, all items prior to the specified due date except those specifically deferred are paid. Deferral may be for an entire vendor, or for selected vouchers within a vendor. In the selection method, only those items specifically selected are paid. Partial payments may be made in either method.
8. Prints the "Pre-Check Writing Report" showing vouchers (by vendor) that are to be paid. Adjustments may be made prior to check writing.
9. Prints Accounts Payable checks using stub-over-check format. Uses pre-numbered checks. The starting check number and check date must be entered through the CRT. Provisions are made for restarting check printing from any specified point if necessary.
10. Prints the "Accounts Payable Check Register" (Cash Disbursement Journal) showing details of vouchers paid (by vendor) on each check. Any prepaids entered since the last Check Register are also automatically shown on this report.
11. Prints the monthly "Accounts Payable/General Ledger Distribution Cross Reference" showing G/L distribution (by account number) of all new payables entered for the month ended. At the operator's option, the detail within each account may be suppressed, thereby showing only the total amount distributed to each G/L account.
12. Prints the "Vendor Analysis Report" on request, showing the total dollar amount billed, the number of vouchers (one invoice per voucher), and the average voucher amount for each vendor year-to-date.
13. At the User's option, the system may be automatically interfaced to the General Ledger at month end.
14. Other miscellaneous support programs.
15. Approximate record sizes: Vendor record - 128 characters (includes Index overhead); A/P Open record - 54 characters; New Payables record - 222 characters; and G/L Distribution record - 42 characters.

ACCOUNTS RECEIVABLE

1. System can handle both Balance Forward and Open item customers.
2. Has complete Customer File maintenance: add, change, delete, and list. The customer record contains: customer number, name, 2 street address lines, city, state, zip, customer type code, salesman code, sales and cost-of-sales month-to-date and year-to-date, taxable status, credit limit, account type (open item or balance forward), and statement flag (whether or not customer gets a statement).
3. Allows interactive entry and editing of Sales and Credit and Debit Memos. The data entered is: document (invoice) number, date, type (sale, CR or DR), customer number (with automatic verification and display of customer name), salesman number, sale amount, miscellaneous charges, sales tax, freight, and cost. The invoice total is automatically displayed.
4. Prints the "Sales Journal" (includes Credit and Debit memos) showing the data entered in step 3 above, with totals.
5. Allows interactive entry and editing of Cash Receipts. The data entered is: Customer number (with automatic verification and display of customer name), receipt date, check number, amount received, and any discount allowed. For "open item" accounts, the invoice number(s) to which the payment applies may also be entered, or all open invoices for the customer may be displayed on the CRT automatically, allowing the operator to select which invoices to pay.
6. Prints the "Cash Receipts Journal" showing the data entered in step 5 above, with totals.

7. Automatically posts Sales, Credit and Debit Memos and Cash Receipts to the Accounts Receivable Open Item File. The open items for each customer are purged monthly (or on request) according to the type of account (balance forward or open item).
8. Prints the "Accounts Receivable Aged Trial Balance" on request, either for all customers or for selected customers. At the option of the operator, the detail within each customer may be suppressed, thereby showing only the summary aged subtotals for each customer.
9. Automatically calculates Finance Charges, or Finance Charges may be manually calculated and entered through the CRT.
10. Prints "Statements" on request, either for all customers or for selected customers. The statement date is entered through the CRT. Aged subtotals may optionally be shown at the bottom of the statement. Customers may individually be flagged to receive no statement. The right hand side of the statement is a "Remittance Advice" form. It is perforated for tear off and is designed to be used by the customer to indicate payments and to be returned by the customer with his payment. If not needed by the user, it may easily be removed from the program.
11. Prints the "Monthly Sales Summary" showing Sales, Credit and Debit Memo, and Finance Charge totals (sale amount, miscellaneous, charges, sales tax, freight, and total amount) by run.
12. Prints the "Monthly Cash Receipts Summary" showing total amount received, discounts allowed, and total credited to A/R by run, plus any miscellaneous non-A/R amounts received.
13. Prints the "Alphabetical Customer List" on request.
14. Prints the "Sales Analysis by Customer," "Sales Analysis by Salesman," "Sales Analysis by State," and "Sales Analysis by Customer Type" reports on request.
15. At the user's option, the system may be automatically interfaced to the General Ledger at month end.
16. Other miscellaneous support programs.

ORDER ENTRY/INVENTORY CONTROL PACKAGE

1. This is a two step Order Entry with Inventory Control, selective Billing automatically interfaced to the Accounts Receivable and full Back Order retention and control.
2. Runs in conjunction with The Computer Factory's Accounts Receivable package and utilizes the same Customer Master file.
3. Has complete inventory file maintenance: add, change, delete, and list. The inventory record contains: item number (10 alphanumeric characters), description, product category, average unit cost, three prices, quantity-on-hand, quantity committed, reorder level, weight, month-to-date and year-to-date sales and cost of sales figures, taxable status, and picking sequence.
4. Allows interactive entry and editing of inventory receivings transactions. Automatically updates new average cost prices (if any price change), and quantity-on-hand on the Inventory File. Prints the "Inventory Receivings Report."
5. Order Entry and Billing are two distinct functions.
6. During Order Entry, a six-digit "order number" is assigned to each order as it is entered. The customer number is verified and the customer name displayed. The responsible salesman may automatically be pulled off the customer file, or manually entered. The ship-to address may also be manually entered or automatically accessed from the customer file. During order entry, committed inventory is automatically controlled. The capability to manually override prices exists. Each line item may be assigned a different discount percentage if necessary. Fully interactive back order control is provided.
7. Open orders may be inquired into, added to, changed or deleted at any time prior to billing. Changes to line items or cancellations automatically result in adjustments to inventory.
8. Prints "Picking Tickets" on request, showing items for each order sorted by picking sequence.
9. Selected orders may be billed on request, and partial billing is allowed, with adjustments to quantities shipped and quantities back ordered allowed at billing time. Miscellaneous charges, sales tax, freight, and any salesman commission amount or percentage due may also be entered at billing time.
10. Prints Invoices for all orders billed and automatically interfaces billing information into Accounts Receivable.
11. Credit Memos may be entered on request, with optional automatic adjustment of inventory.
12. Prints the "Back Order Report by Item" or "Back Order Report by Customer" on request.
13. Prints the "Purchasing Advice Report" on request, showing all items which hit reorder level or went out of stock since the last printing of this report.
14. Prints the "Price List" on request.
15. Prints the "Inventory Stock Status Report" on request, showing the current stock status of all (or selected) inventory items, including inventory value.
16. Prints the "Sales Analysis by Product Category" on request, showing sales, cost of sales, percent of sales, profit and percent of profit for each item within each category, both month-to-date and year-to-date, with a "Summary" by category at the end.
17. Prints the "Commissions Due Report" on request.
18. Other miscellaneous support programs.
19. Approximate record sizes: Inventory record - 154 characters (includes index overhead); Receivings record - 110 characters; Order record - 286 characters per order plus, 86 characters per line item; Commissions Due record - 62 characters per invoice.

PAYROLL PACKAGE

1. This is an hourly and/or salary payroll.
2. Has complete Employee file maintenance: add, change, delete, and list. The Employee record contains all pertinent information, including: 3 different hourly rates (regular, overtime, and special), base pay amount (for salaried employees only), 6 different deductions, plus the appropriate quarterly and year-to-date figures.
3. Hourly and salary payrolls may be run together or separately. Through simple modifications, the tax tables may be set up as daily, weekly, biweekly, semi-monthly, and/or monthly.
4. Allows interactive entry and editing of Payroll Attendance transactions. The data entered is: employee number (with automatic verification of and display of employee name), regular hours (default to 40), overtime hours, vacation hours, any miscellaneous dollars to be paid, any one time deduction, and number of weeks of advance vacation pay. For restaurants, meals and tips may also be entered. For salary payrolls, the system will default to one period's base pay instead of 40 hours. The system allows up to 4 full weeks of advance vacation pay to be paid, prevents overpayment of vacation time, and warns against payment of terminated employees.

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COMMODORE "PET" only \$795

- 14K ROM Operating System
- 8K RAM Memory
- 9" Video Monitor
- Built-In Keyboard
- Digitally controlled tape

commodore

Today's best value in personal computers, along with the latest in peripherals, are always in stock at the COMPUTER FACTORY.

PERIPHERALS FOR PET

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- PET to RS232 Serial \$169
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- PET to S100 (4-slot) \$160
- Second Cassette Drive \$100
- Parallel Printer Interface \$199
- PET Printer (Feb. 79) \$695

DUAL DISK (200KB) \$1295



APPLE II
APPLE is a completely contained computer system, with BASIC in ROM, full ASC II keyboard in a lightweight molded carrying case. Expandable to 48K!

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Compucolor II

\$1,495 Complete!
16K Model add \$300

COMPUCOLOR II Disk-Based Model 3
Advanced hardware and software technology gives you:

- 13 inch Color Display
- Advanced Color Graphics
- 51K Disk Built-In
- 16K ROM Operating System
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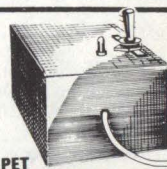
Every unit comes with an extended DISK BASIC that has a full file management capability resident in the COMPUCOLOR II in 16K of ROM. Color is fantastic, but COMPUCOLOR II has the power to handle com-



plex tasks and small business applications. An impressive software library supplements your own creativity.

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Add music and sound effects to your programs. Compose, play, and hear music on your pet. Completely self-contained (no wiring). Free 3 programs including Star Wars theme, sound effects, etc. \$39.



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Word Processing For PET.

With this program in hand, you can create text and add, delete, center, recall lines and move text around on page or between pages. Use either PET or terminal keyboard. \$45.00

PET SOFTWARE

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The COMPUTER FACTORY's extensive inventory and wide selection of computer printers assures you of finding the printer best suited for your needs and specifications. The following printers work well with all known personal computers.

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- AXIOM (Parallel) \$ 395
- AXIOM (Serial) \$ 495
- EXPANDOR (Tractors) \$ 425
- INTEGRAL DATA \$ 795
- DUME or DIABLO \$3400

CENTRONICS 700 (Business) \$1595

PET TO CENTRONICS PRINTER INTERFACE SWITCH SELECTABLE \$199

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Ideal for word processing and small businesses. 841 I/O Terminal

- ASC II Code
- 15 cps Printout
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- Use Keyboard for PET
- Reliable heavy duty Mechanism
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by EXIDY
• 2.80 Processor
• Keyboard and Numeric Pad
• 8K RAM (up to 32K)
• Serial and Parallel I/O
• 30 x 64 Display
• S-100 Compatible
• 64 User Defined Characters
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Modular design allows use of both cassettes for programs and ROM PAC cartridges for future language introductions like: APL, COBOL, PILOT, FORTRAN, etc. Add monitor and tape or disk for complete computer system.

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SPECIAL 12" Video Monitor for SORCERER (\$299 value) ONLY

\$125 with 8K unit
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- Microchess 19.95
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- CHES—with Acey Deucey & Line 5
- STARTREK—with Lunar Lander,
- OTHELLO—with Dice & Concentration
- HANGMAN—with Math Tutor, 2 on 10

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- BONDS AND SECURITIES
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The following are \$24.95 each
TEXT EDITOR ASSEMBLER



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